



# TROPICAL UPDATE



12:00 PM EDT

Monday, September 21, 2020

Panhandle River Flooding

Hurricane Teddy, Tropical Storm Beta, Ex-Paulette, FL Front-20%

East Coast Coastal Flooding/Beach Erosion Event

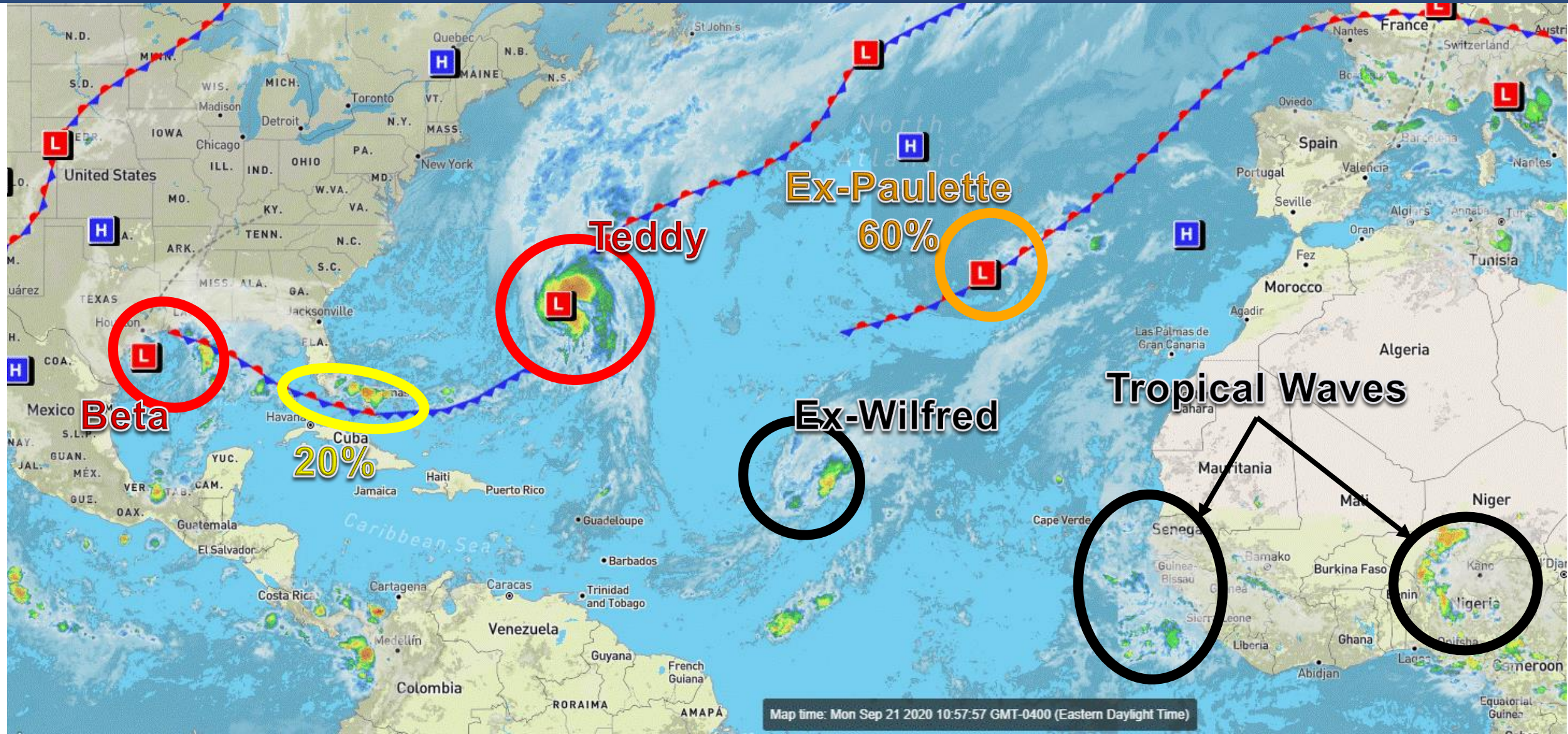
This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office, or visit the National Hurricane Center website at [www.hurricanes.gov](http://www.hurricanes.gov).





# Atlantic Basin Satellite Image

Chance of development: — None — Low — Medium — High







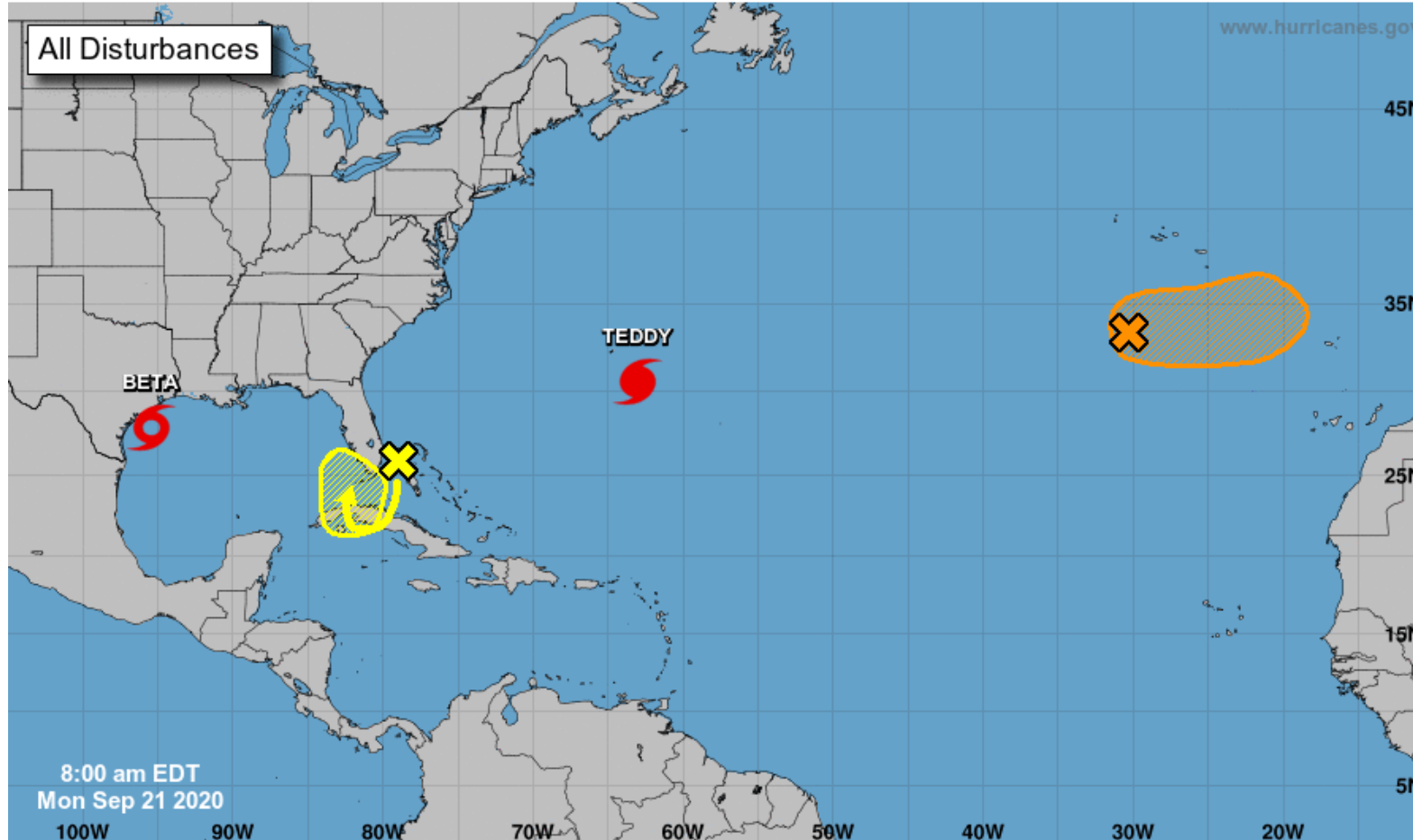
# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

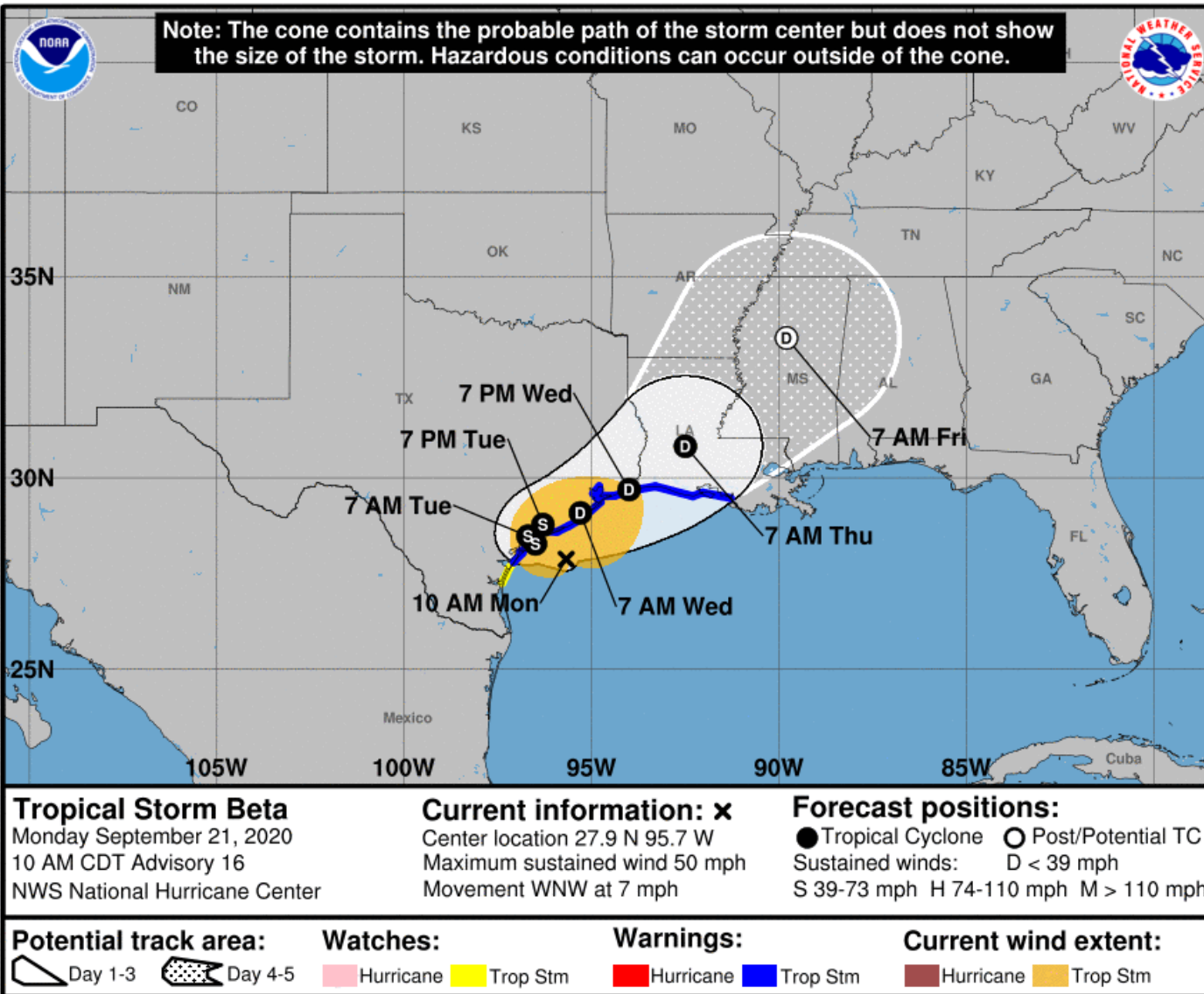


Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%  
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane  
 Post-Tropical Cyclone or Remnants



# Official Forecast Track

## From the National Hurricane Center – Tropical Storm Beta



- The center of Beta is located about 55 miles southeast of Port O'Connor, Texas
- Maximum sustained winds are at 50 mph and little change in strength is forecast before landfall in Texas later today.
- Beta is moving toward the west-northwest at 7 mph. The system is expected to stall just inland of the Texas coast tonight before moving northeast starting Tuesday night.
- Direct impacts to Florida are not expected.



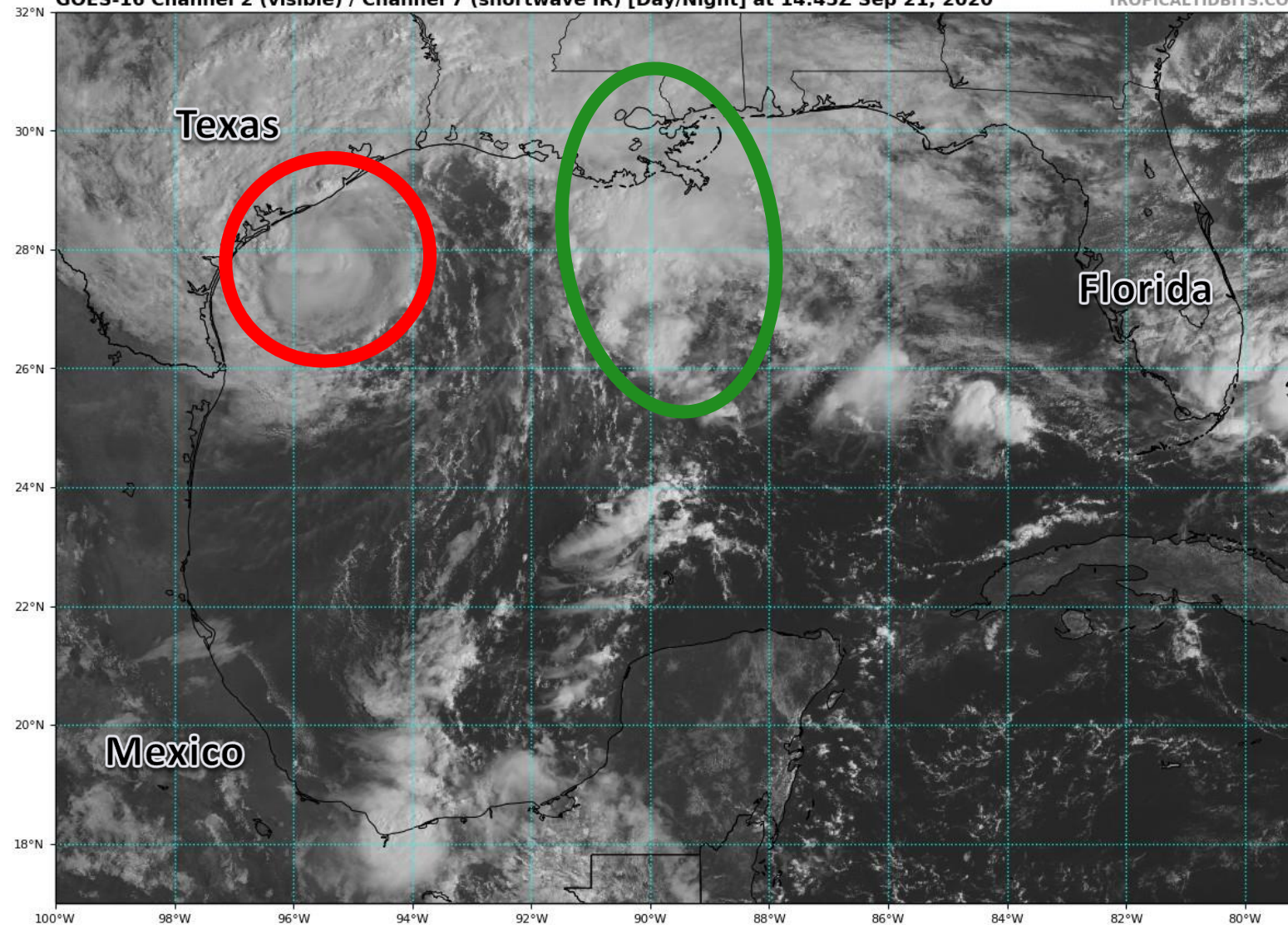


# Satellite Imagery

## Tropical Storm Beta

GOES-16 Channel 2 (visible) / Channel 7 (shortwave IR) [Day/Night] at 14:45Z Sep 21, 2020

TROPICALTIDBITS.COM

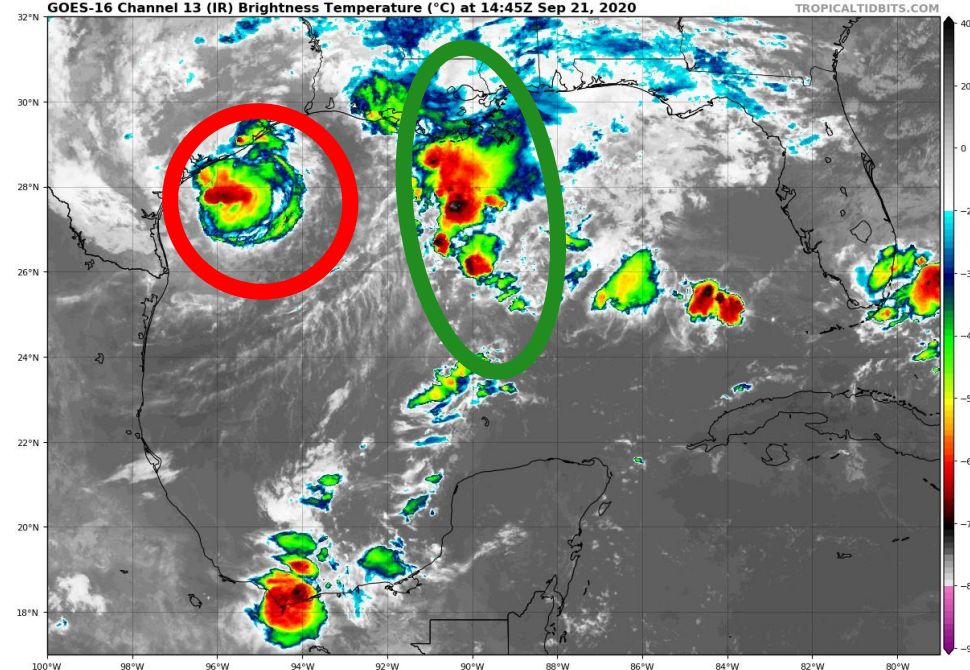


Dry air has wrapped into and around Tropical Storm Beta. It only has a small area of showers and thunderstorms near the center.

Indirectly related to the system, and connected to a cold front, showers and thunderstorms remain ongoing in an area east of the center (green circle).

GOES-16 Channel 13 (IR) Brightness Temperature (°C) at 14:45Z Sep 21, 2020

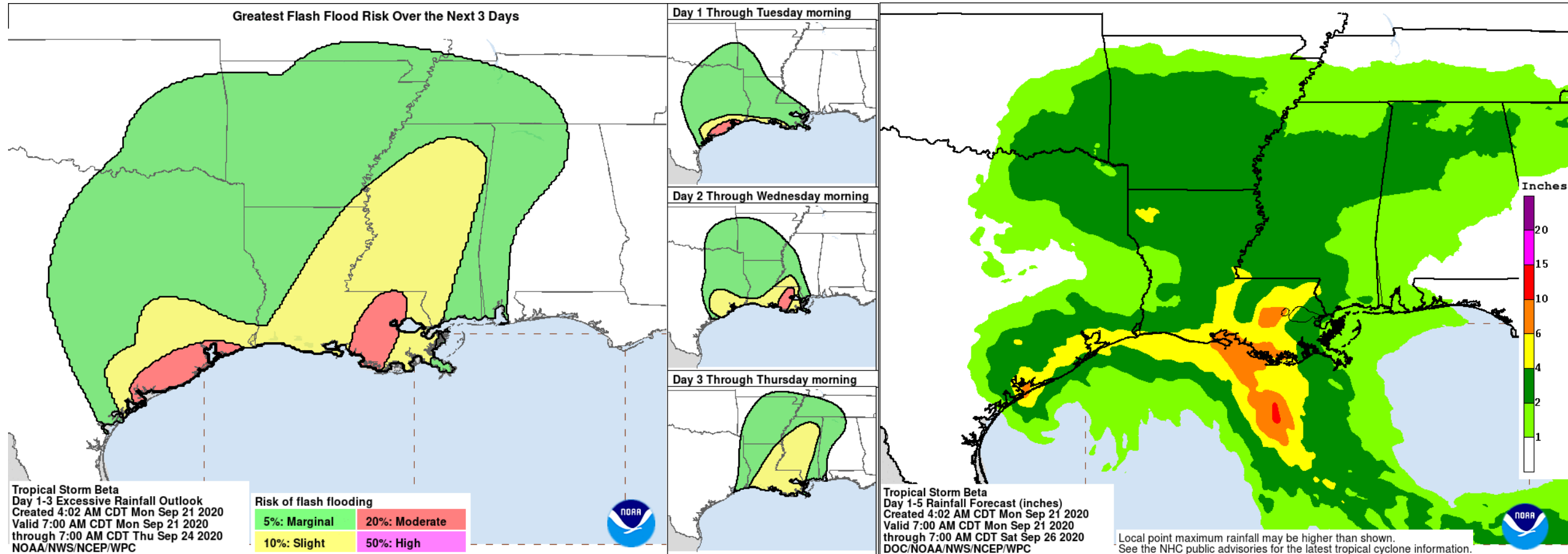
TROPICALTIDBITS.COM





# Tropical Storm Beta

## Flood Threat and Forecast Rainfall This Week

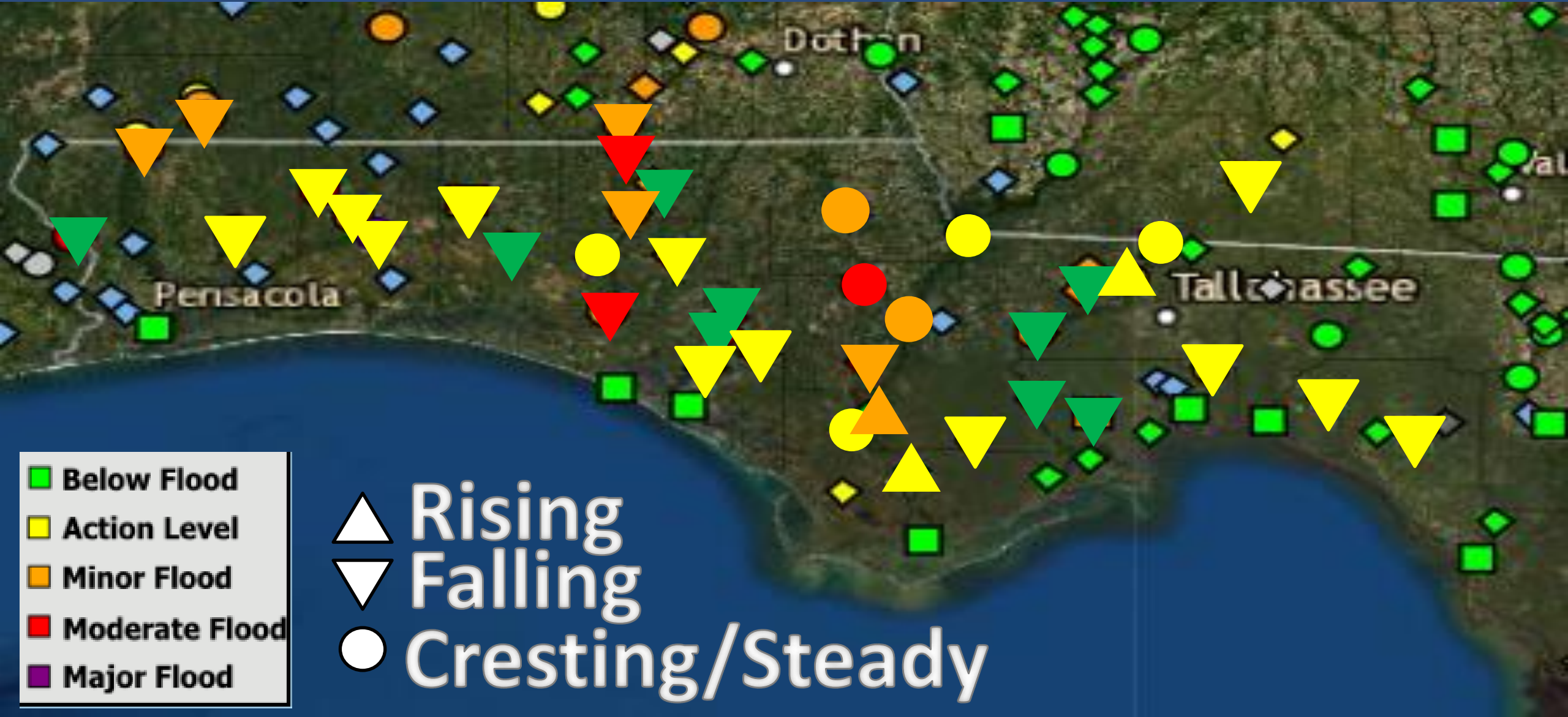


- The Flash Flood Threat associated with Beta will remain west of Florida through the end of the week.





# Current River Status





# Latest River Forecasts

## Southeast River Forecast Center

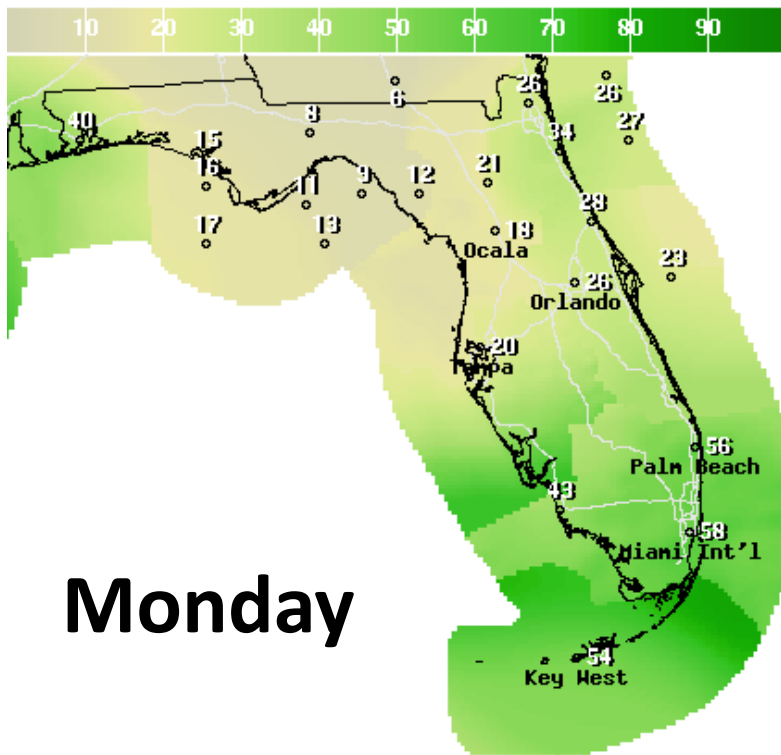
River Gauges	County(ies) Affected	Status	Crest Level	Crest Day	Below Flood Stage Day
<a href="#">Perdido River near Barrineau Park</a>	Escambia	FALLING	MODERATE 22.3	9/16	9/19
<a href="#">Escambia River near Century</a>	Escambia, Santa Rosa	FALLING	MINOR: 21 ft.	9/19	9/25
<a href="#">Blackwater River near Baker</a>	Okaloosa, Santa Rosa	FALLING	MAJOR: 24.5 ft.	9/17	9/19
<a href="#">Yellow River at Milligan</a>	Okaloosa	FALLING	MODERATE: 15.1 ft.	9/19	9/19
<a href="#">Shoal River near Crestview</a>	Okaloosa	FALLING	MAJOR: 16.6 ft.	9/17	9/21
<a href="#">Choctawhatchee River near Pittman</a>	Holmes	FALLING	MODERATE: 27.6 ft.	9/18	Beyond 9/25
<a href="#">Choctawhatchee River at Caryville</a>	Holmes, Washington	FALLING	MODERATE: 16 ft.	9/19	9/24
<a href="#">Choctawhatchee River near Bruce &amp; Ebro</a>	Walton, Washington	FALLING	MODERATE: 19.85 ft.	9/20	Beyond 9/26
<a href="#">Holmes Creek near Vernon</a>	Washington	FALLING	MINOR: 27 ft.	9/18	9/20
<a href="#">Chipola River at Marianna</a>	Jackson	CRESTING	MINOR: 20.91 ft.	9/20	9/22
<a href="#">Chipola River near Altha</a>	Jackson, Calhoun	FALLING	MODERATE: 26.6 ft	9/18	9/22
<a href="#">Chipola River near Scotts Ferry</a>	Calhoun, Gulf	FALLING	MODERATE: 26.2 ft.	9/18	9/23
<a href="#">Apalachicola River near Blountstown</a>	Calhoun, Liberty, Gulf, Franklin	CRESTING	MINOR: 20 ft.	9/21	9/25

**For more details on the hydrographs as well as impact statements, click the links for each river gauge & see the flood info packet on WebEOC.**

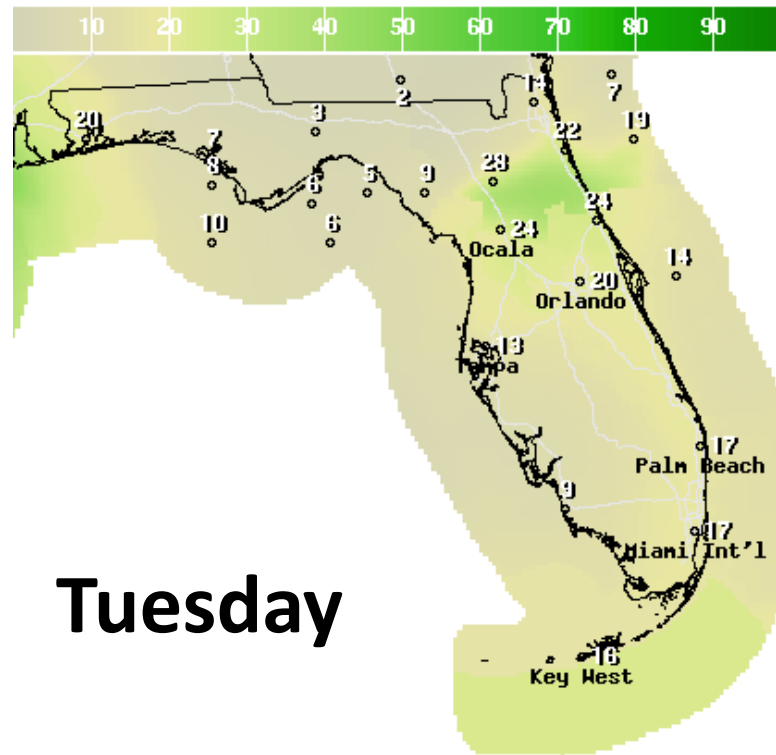




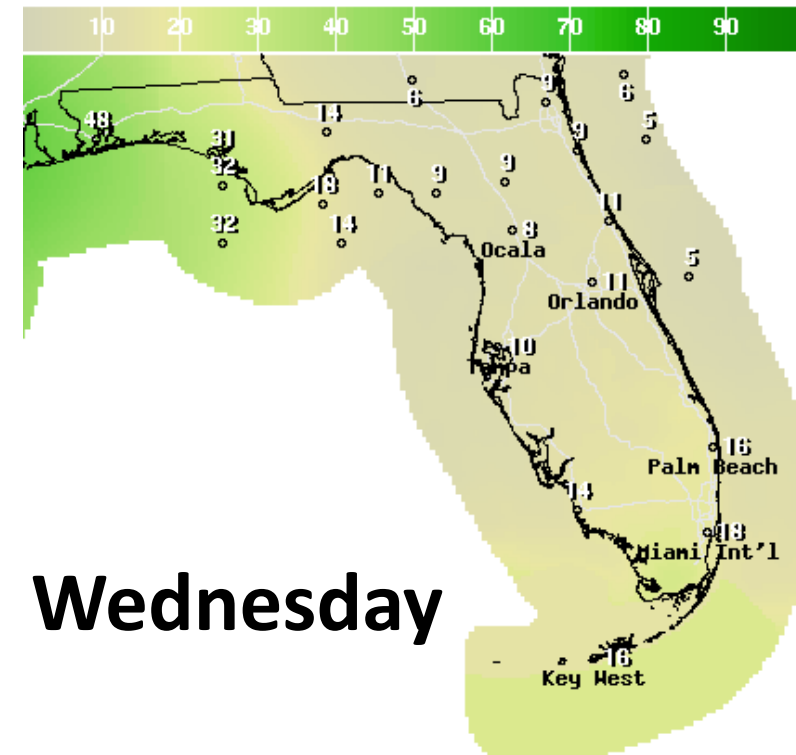
# Rain Chances Next 3 Days



12Hr Prob.Precip(%) Ending Mon Sep 21 2020 8PM EDT  
(Tue Sep 22 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:27AM EDT



12Hr Prob.Precip(%) Ending Tue Sep 22 2020 8PM EDT  
(Wed Sep 23 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:27AM EDT

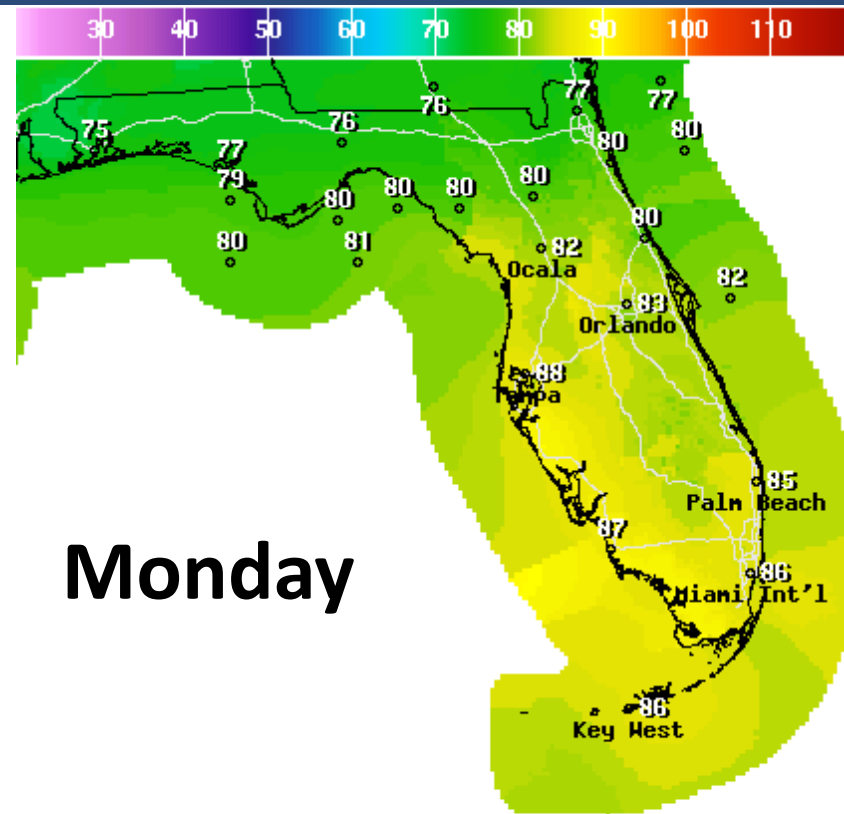


12Hr Prob.Precip(%) Ending Wed Sep 23 2020 8PM EDT  
(Thu Sep 24 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:27AM EDT

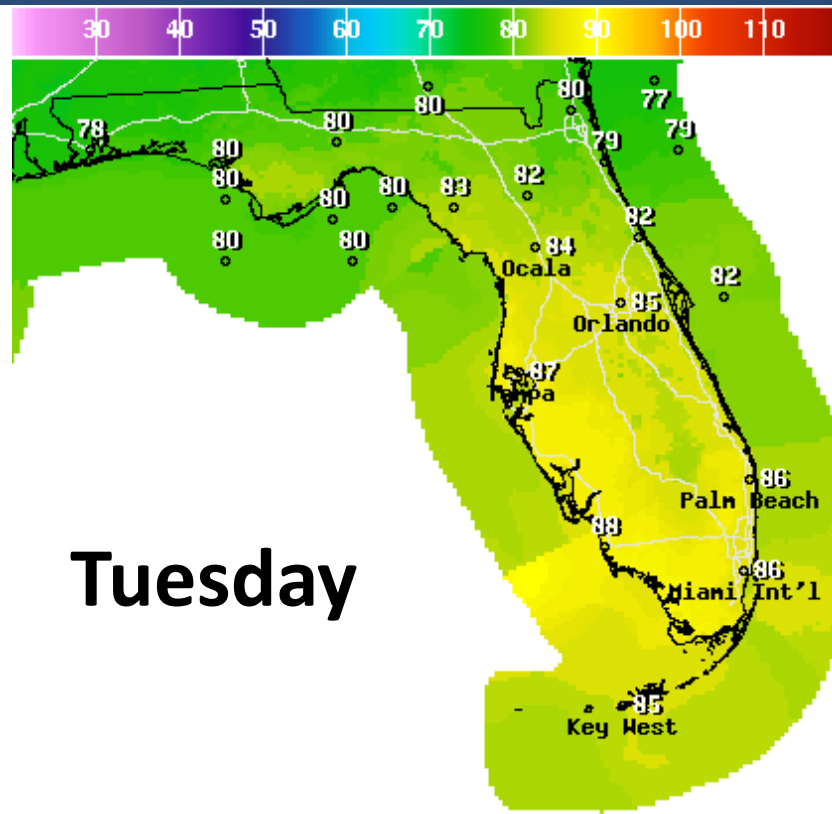
**Isolated showers possible in the Panhandle at any time this week due to moisture from Beta. Locally heavy rainfall in South Florida/Keys tonight. Drier weather in the Peninsula Tuesday/Wednesday.**



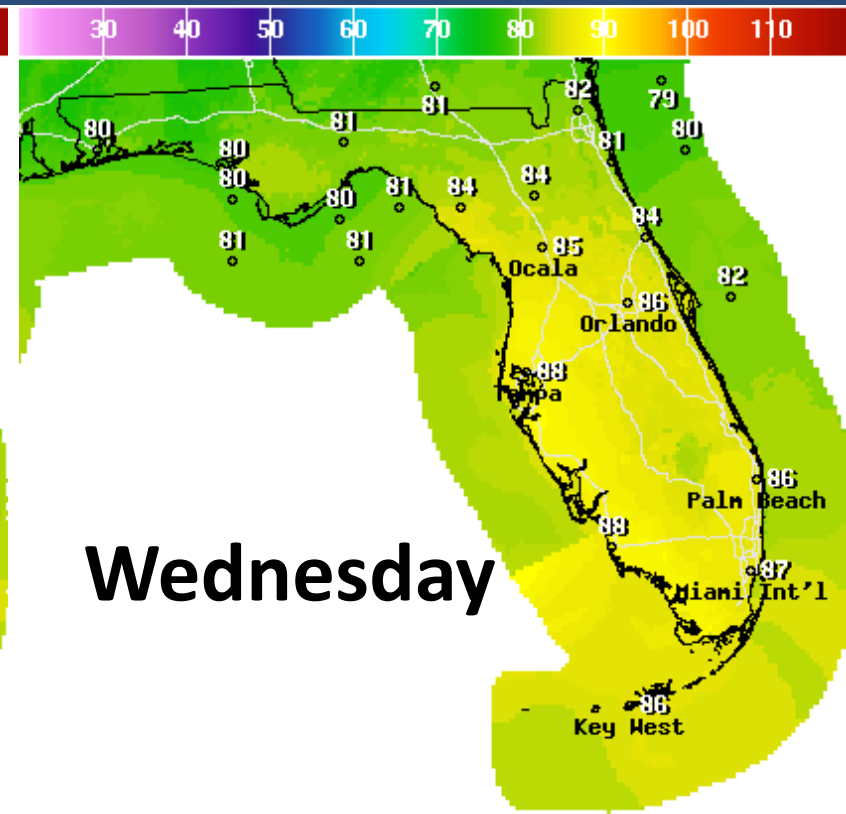
# High Temperatures Next 3 Days



**Monday**



**Tuesday**



**Wednesday**

High Temperature(F) Ending Mon Sep 21 2020 8PM EDT  
(Tue Sep 22 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

High Temperature(F) Ending Tue Sep 22 2020 8PM EDT  
(Wed Sep 23 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

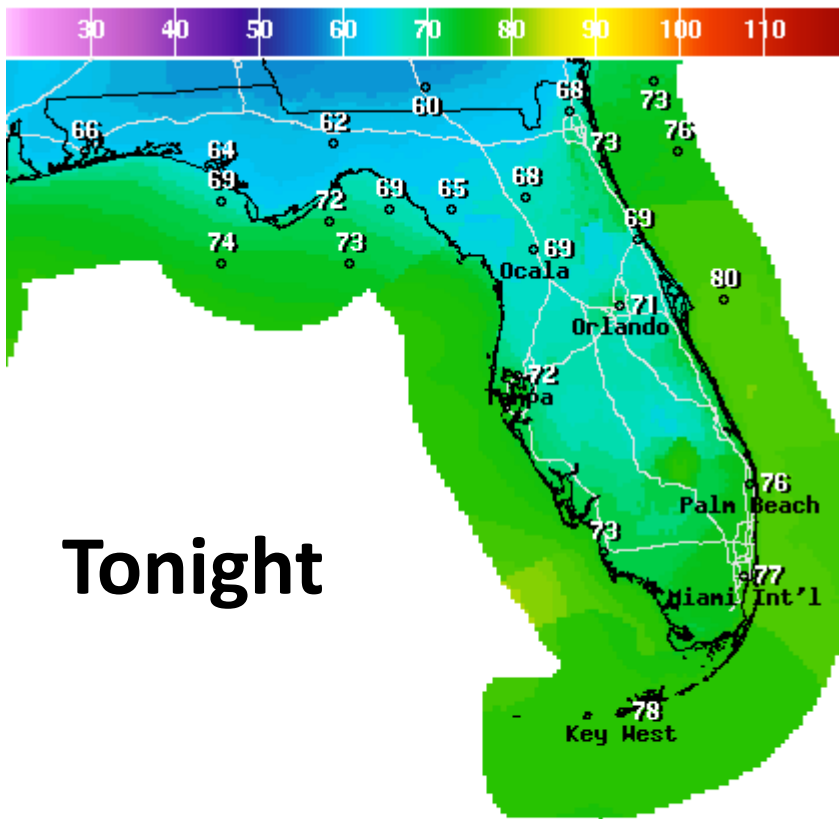
High Temperature(F) Ending Wed Sep 23 2020 8PM EDT  
(Thu Sep 24 2020 00Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

**Temperatures remain below normal across the state over the next few days with lower humidity.**

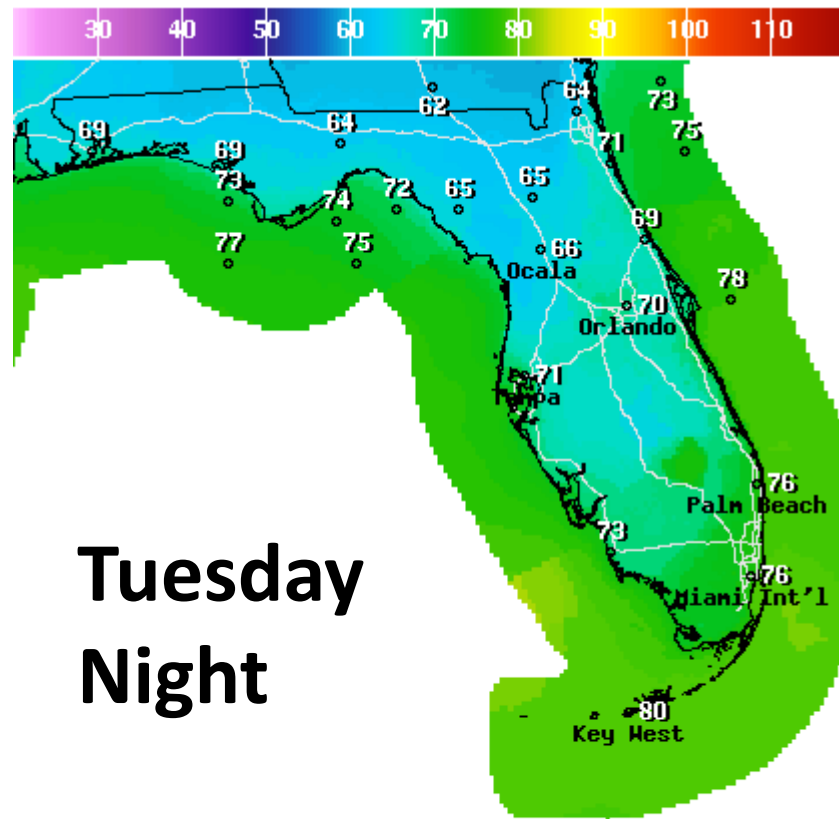




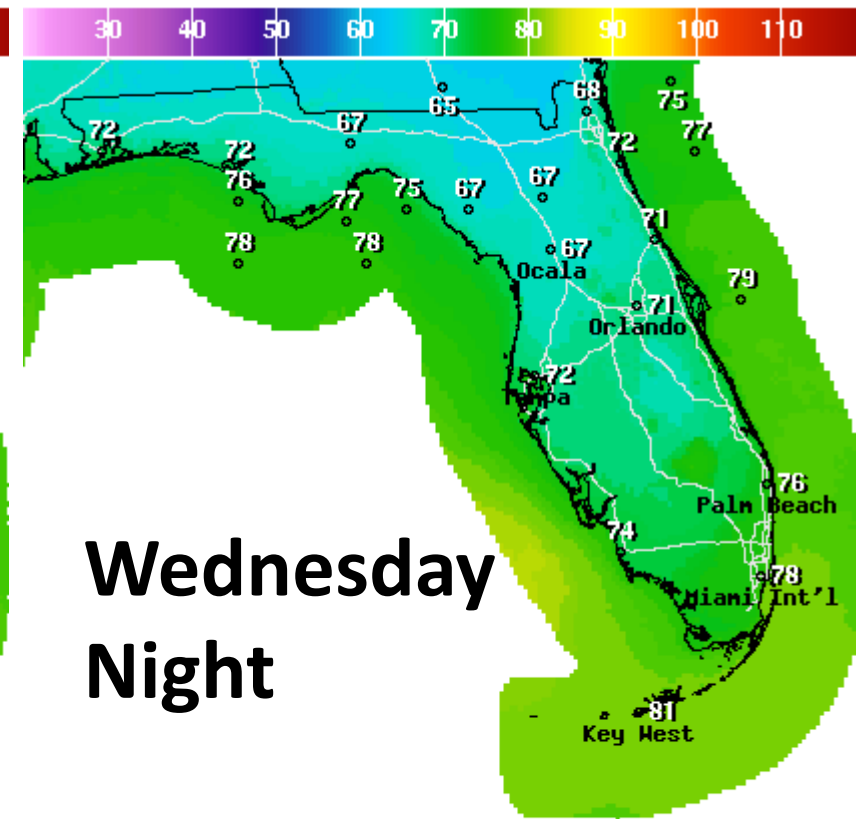
# Low Temperatures Next 3 Days



**Tonight**



**Tuesday Night**



**Wednesday Night**

Low Temperature(F) Ending Tue Sep 22 2020 8AM EDT  
(Tue Sep 22 2020 12Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

Low Temperature(F) Ending Wed Sep 23 2020 8AM EDT  
(Wed Sep 23 2020 12Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

Low Temperature(F) Ending Thu Sep 24 2020 8AM EDT  
(Thu Sep 24 2020 12Z)  
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:11AM EDT

**Temperatures remain below normal across the state over the next few days with lower humidity.**

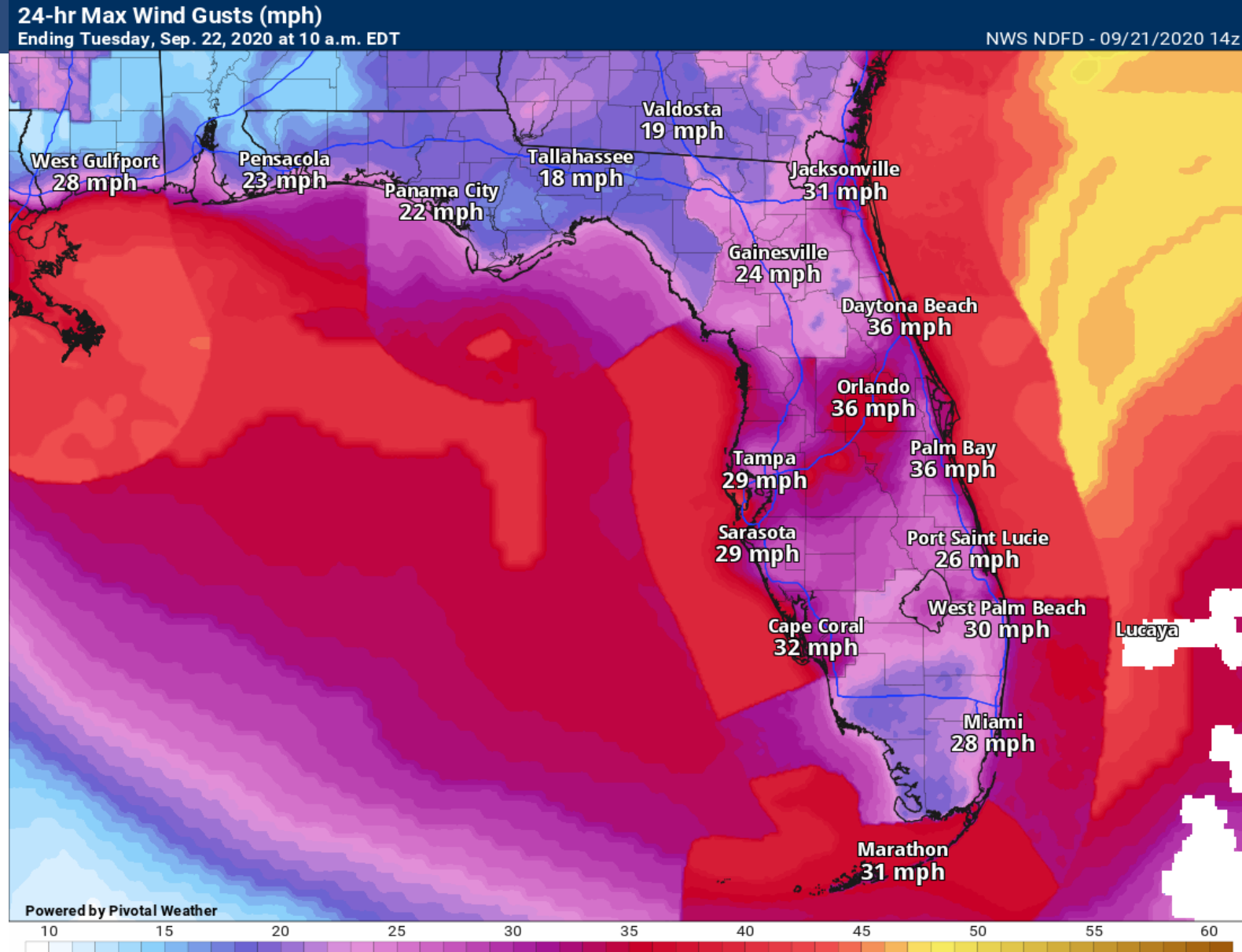


# Max Wind Gusts Next 24 Hours

Strong northeast winds are expected along the East Coast again today.

Northeast winds of 15-25 mph with gusts of 30-45 mph are possible. Higher gusts in showers!

Wind Advisories in effect.

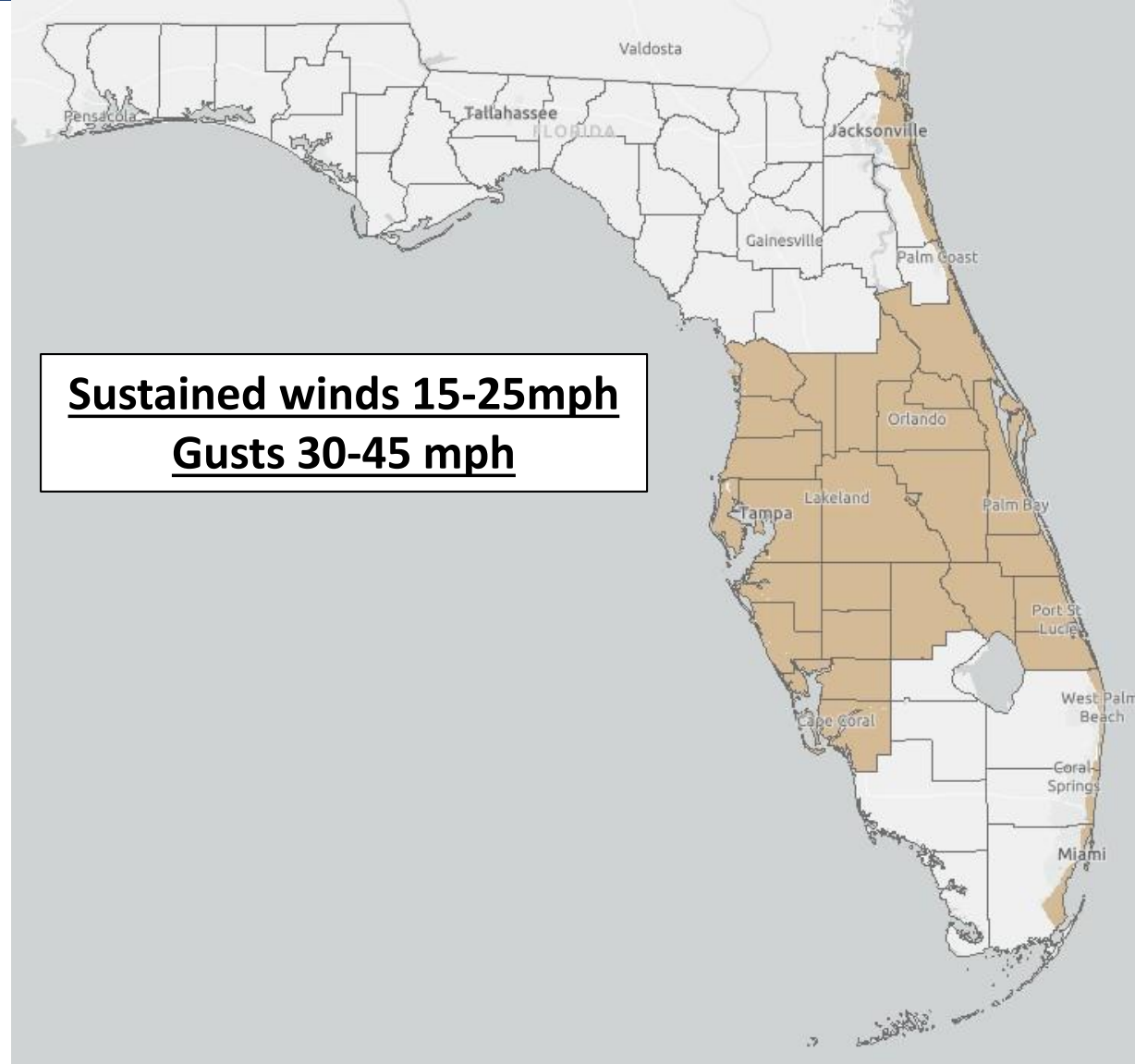






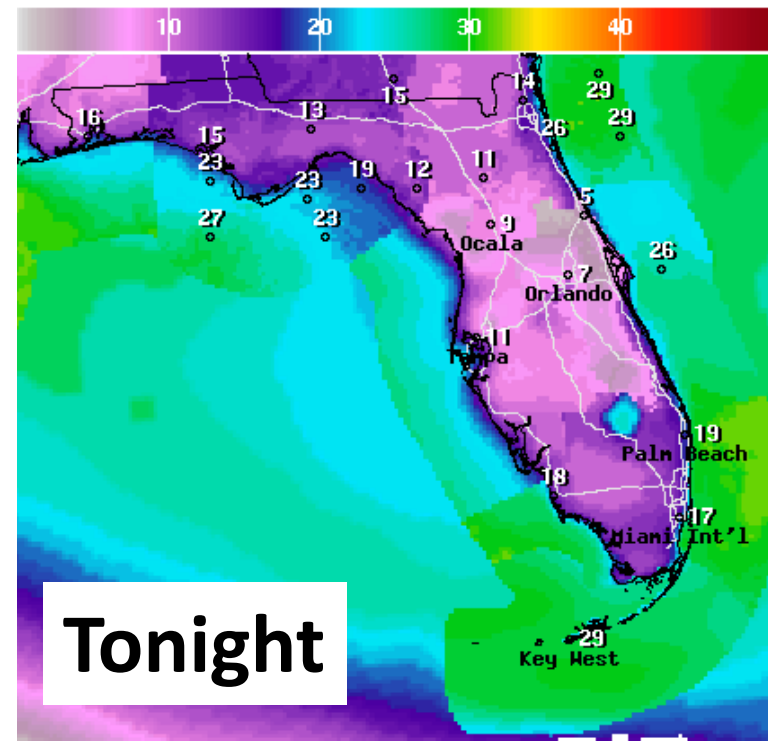
# Wind Advisories

Monday



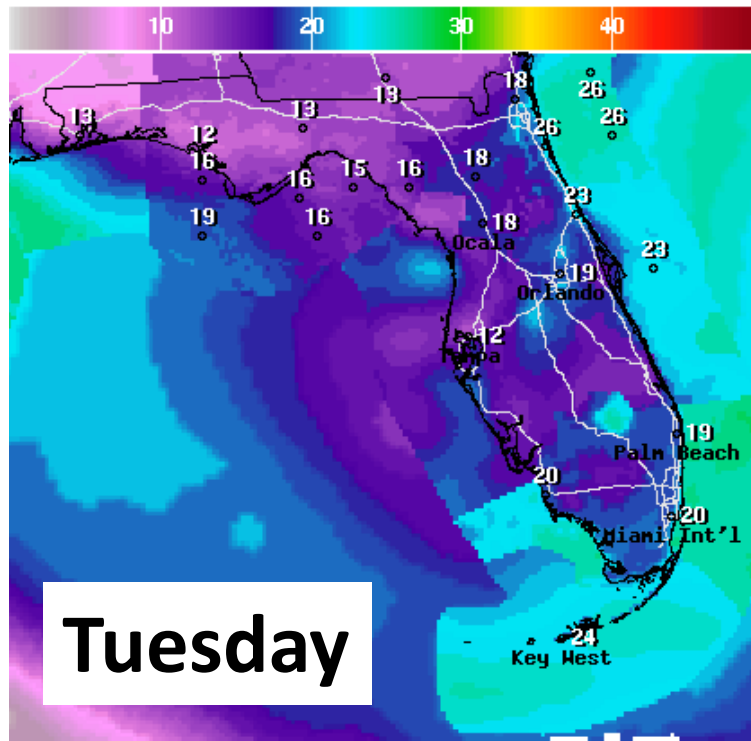


# Wind Gusts Next 3 Days



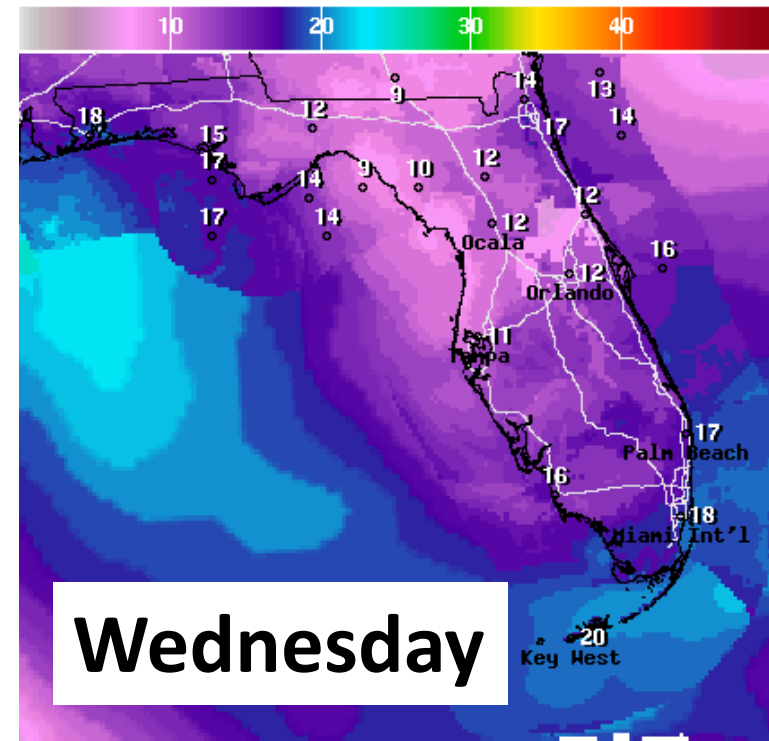
Wind Gust(Kts) Tue Sep 22 2020 5AM EDT  
(Tue Sep 22 2020 09Z)

National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:41AM EDT



Wind Gust(Kts) Tue Sep 22 2020 5PM EDT  
(Tue Sep 22 2020 21Z)

National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:42AM EDT



Wind Gust(Kts) Wed Sep 23 2020 5PM EDT  
(Wed Sep 23 2020 21Z)

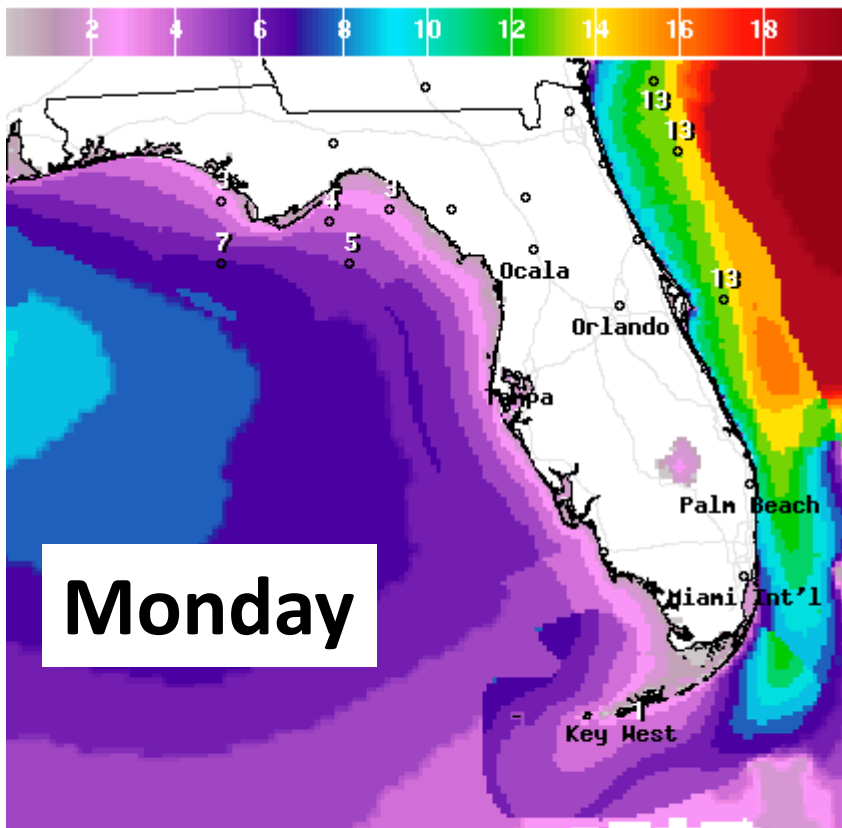
National Digital Forecast Database  
13z issuance Graphic created-Sep 21 9:42AM EDT

**Strong northeast winds are expected to continue along the East Coast. Winds gradually decrease on Wednesday.**





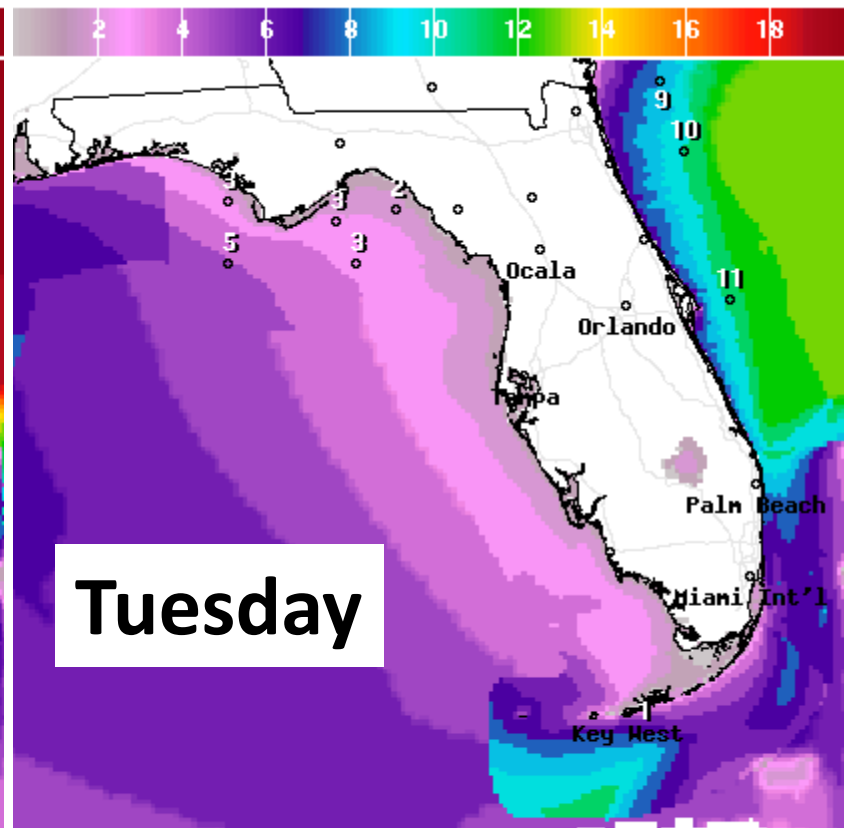
# Wave Heights Through Mid-week



Wave Height(ft) Ending Mon Sep 21 2020 8PM EDT  
(Tue Sep 22 2020 00Z)

National Digital Forecast Database

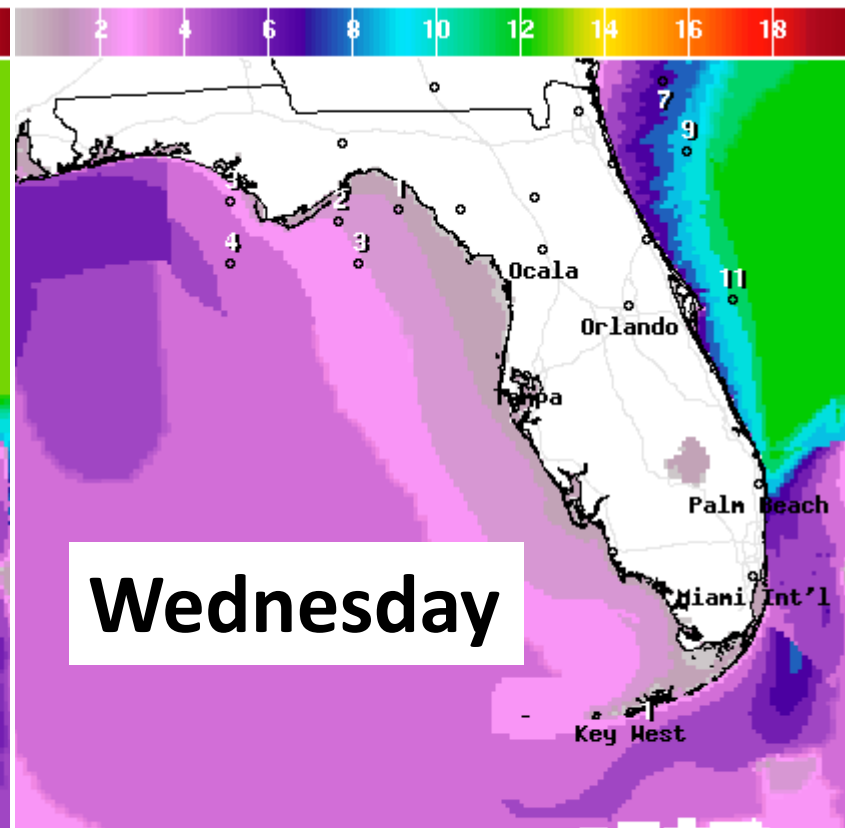
13z issuance Graphic created-Sep 21 9:21AM EDT



Wave Height(ft) Ending Tue Sep 22 2020 8PM EDT  
(Wed Sep 23 2020 00Z)

National Digital Forecast Database

13z issuance Graphic created-Sep 21 9:22AM EDT



Wave Height(ft) Ending Wed Sep 23 2020 8PM EDT  
(Thu Sep 24 2020 00Z)

National Digital Forecast Database

13z issuance Graphic created-Sep 21 9:23AM EDT

**The combination of strong northerly winds and swells from Hurricane Teddy will create very high seas along the East Coast into the middle of the week. Beach erosion and dangerous rip currents likely!**



# Coastal Flooding

Monday - Wednesday

1.5-2.5'

2.5-3.5'

1.5-2.5'

1-2'

1-1.5'

**Monday &  
Tuesday AM**

Image Landsat / Copernicus  
© 2020 Google  
US Dept of State Geographer  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

1-2'

1'

**Tuesday PM  
& Wednesday**

Image Landsat / Copernicus  
© 2020 Google  
US Dept of State Geographer  
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

**Minor to moderate coastal flooding is expected today and through tomorrow morning along much of the East Coast, with some more significant coastal flooding possible in Northeast Florida and the tidal St. Johns River.**





# Coastal Flood Alerts

Monday - Tuesday

**Coastal Flood Warning**  
(moderate coastal flooding)

**Coastal Flood Advisory**  
(minor coastal flooding)

**Coastal Flood Statements**  
(nuisance coastal flooding)

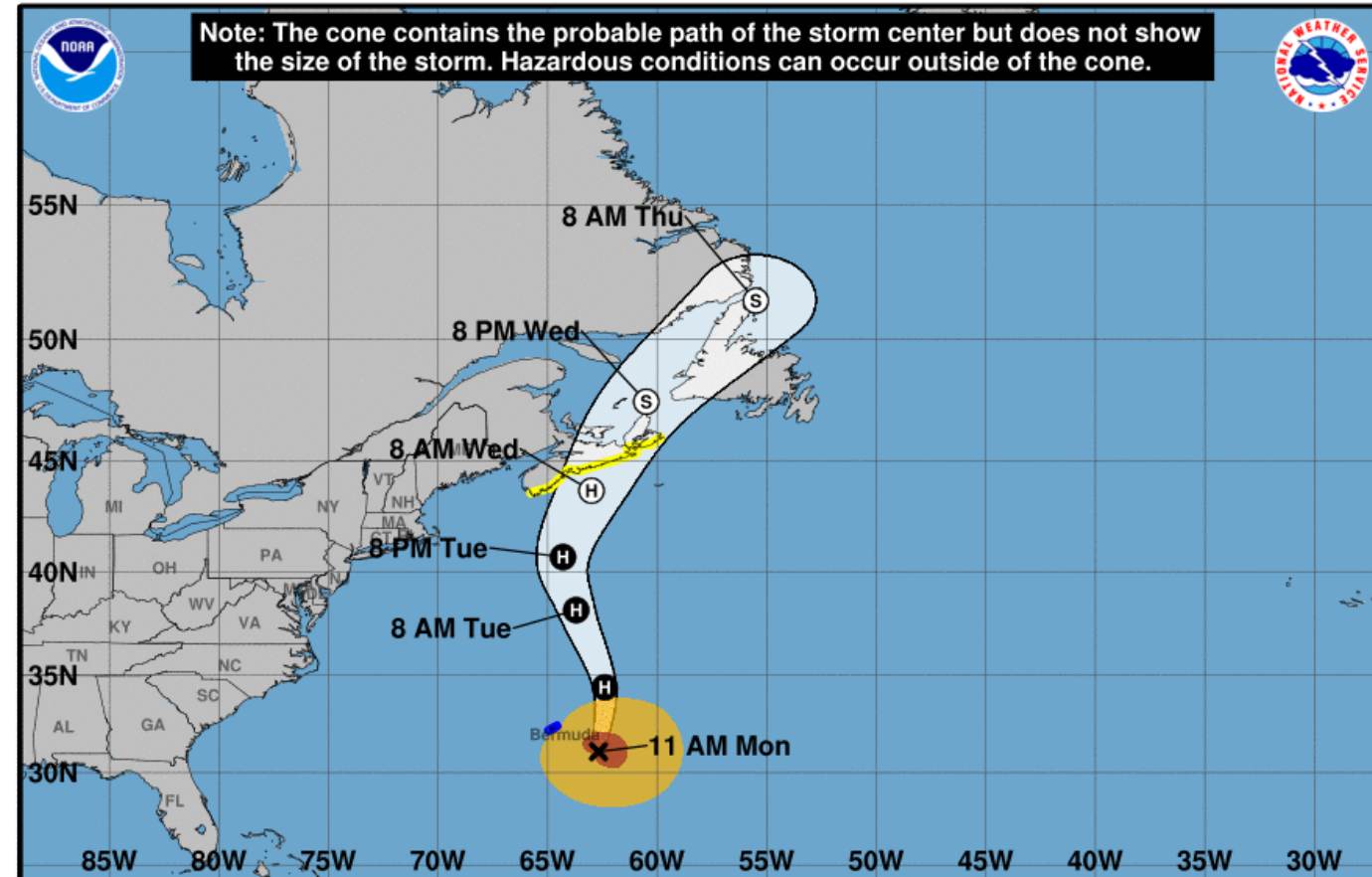
**High Surf Advisory**  
(breaking waves 7-11')



# Official Forecast Track

## From the National Hurricane Center – Hurricane Teddy

Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.



- The center of Teddy is located about 150 miles southeast of Bermuda.
- Maximum sustained winds are at 90 mph (Category 1).
- Teddy is moving north-northeast at 14 mph, and this general motion will continue.
- Teddy's wind field will expand as it becomes post-tropical, and large swells will propagate across much of the western Atlantic over the next several days.

### Hurricane Teddy

Monday September 21, 2020  
11 AM AST Advisory 37  
NWS National Hurricane Center

### Current information: x

Center location 31.1 N 62.7 W  
Maximum sustained wind 90 mph  
Movement NNE at 14 mph

### Forecast positions:

● Tropical Cyclone ○ Post/Potential TC  
Sustained winds: D < 39 mph  
S 39-73 mph H 74-110 mph M > 110 mph

### Potential track area:

Day 1-3 Day 4-5

### Watches:

Hurricane Trop Stm

### Warnings:

Hurricane Trop Stm

### Current wind extent:

Hurricane Trop Stm



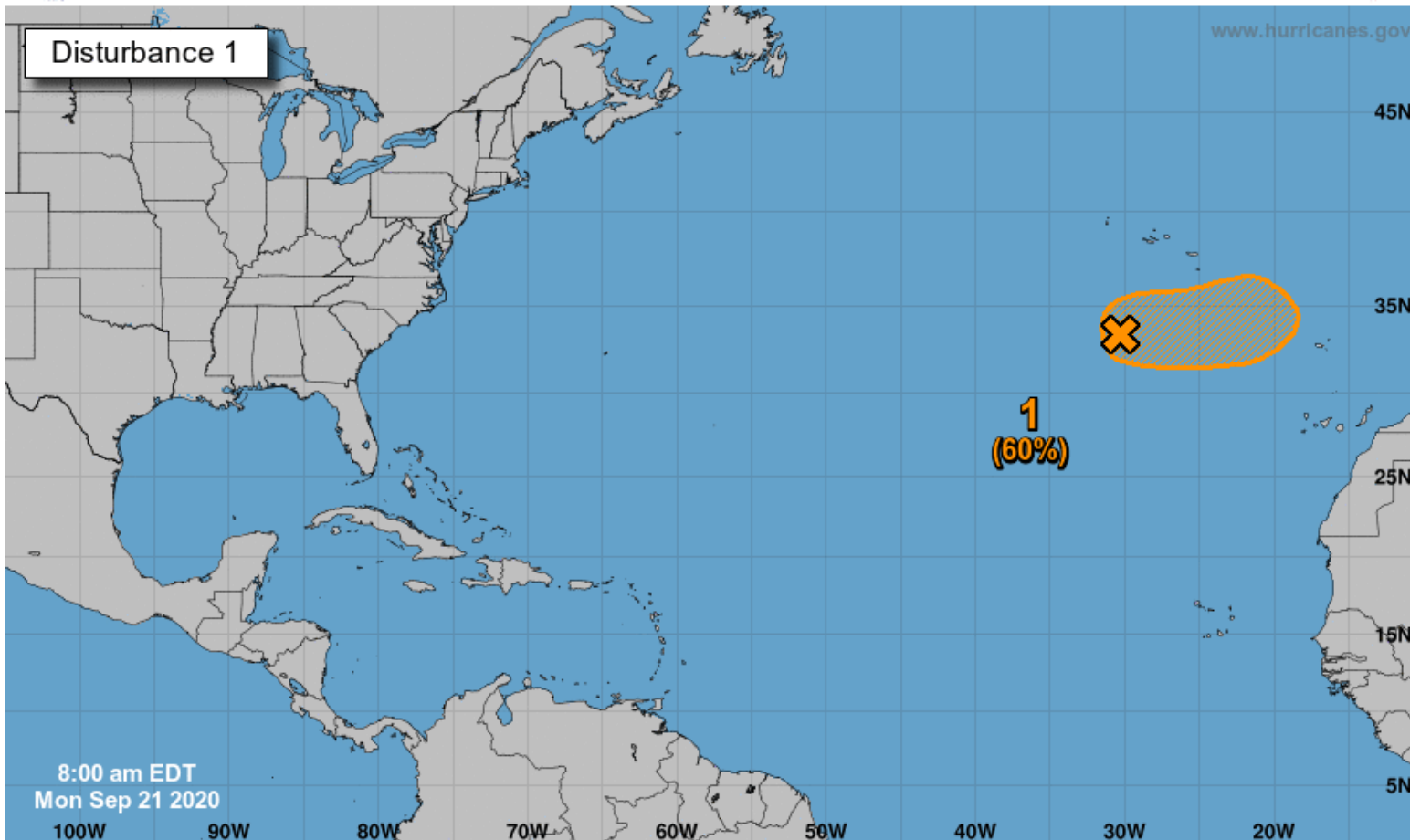
# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#)) – Ex-Paulette



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Post-Tropical Cyclone Paulette is producing a small area of showers and thunderstorms, not far to the northeast of its center of circulation.

Some development is still possible, and the system could become a tropical or subtropical cyclone today or tomorrow while it moves eastward at 10 to 15 mph. Advisories could be re-initiated on Paulette.

**\*Formation chance through 48 hours...medium...60%**

**\*Formation chance through 5 days...medium...60%**

Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants





# Tropical Weather Outlook

Possible Areas of Development During the Next 5 Days ([LINK](#))



## Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

Disturbance 2

2  
(20%)

8:00 am EDT  
Mon Sep 21 2020

100W 90W 80W 70W 60W 50W 40W 30W 20W

Current Disturbances and Five-Day Cyclone Formation Chance:  
Tropical or Sub-Tropical Cyclone: ○ Depression ○ Storm ○ Hurricane  
Post-Tropical Cyclone or Remnants: ⊗

✕ < 40% ✕ 40-60% ✕ > 60%

An area of showers and thunderstorms located over southeastern Florida, the northwestern Bahamas, and the Straits of Florida is associated with a weak frontal system.

This disturbance is forecast to move southward over central and western Cuba during the next couple of days, and then move back northward on Thursday through Saturday.

Upper-level winds are expected to become marginally conducive for development by Thursday and Friday when the disturbance is forecast to approach the Florida Keys and South Florida.

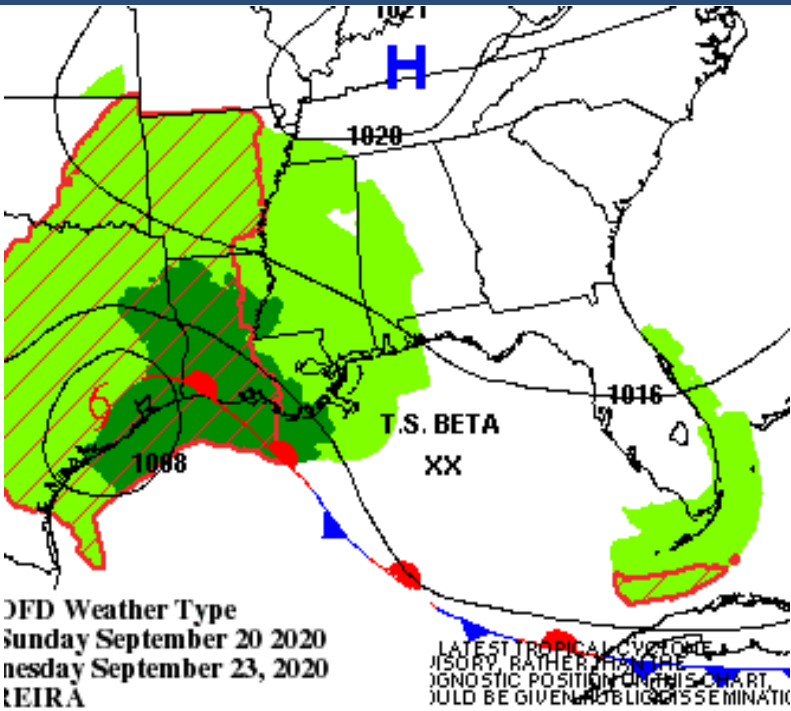
Regardless of development, locally heavy rainfall can be expected across portions of South Florida and the Florida Keys today and tonight.

**\*Formation chance through 48 hours...low...near 0%**

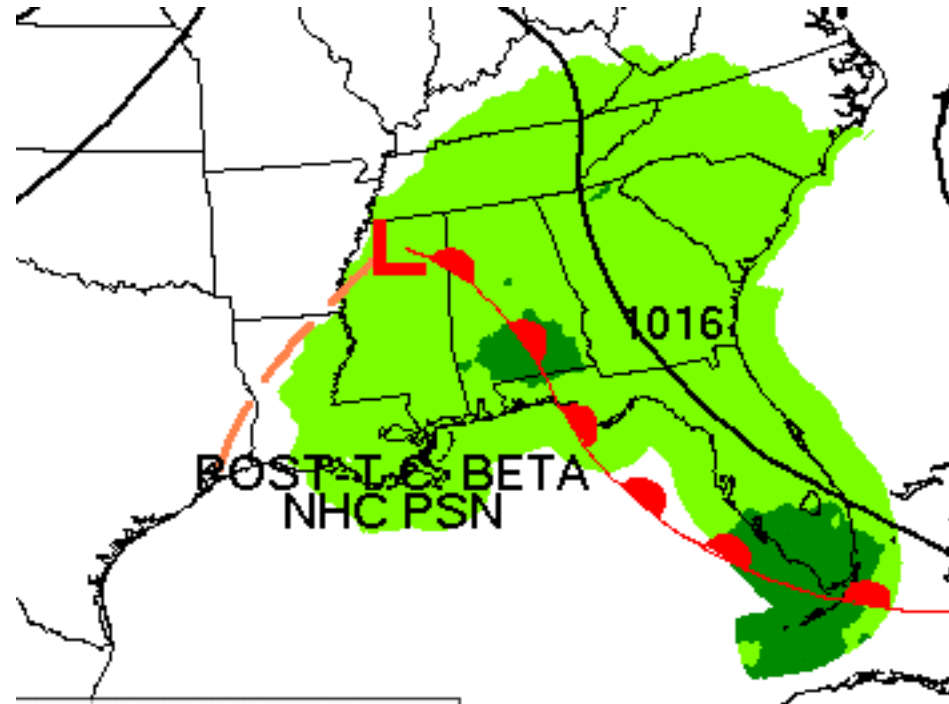
**\*Formation chance through 5 days...low...20%**



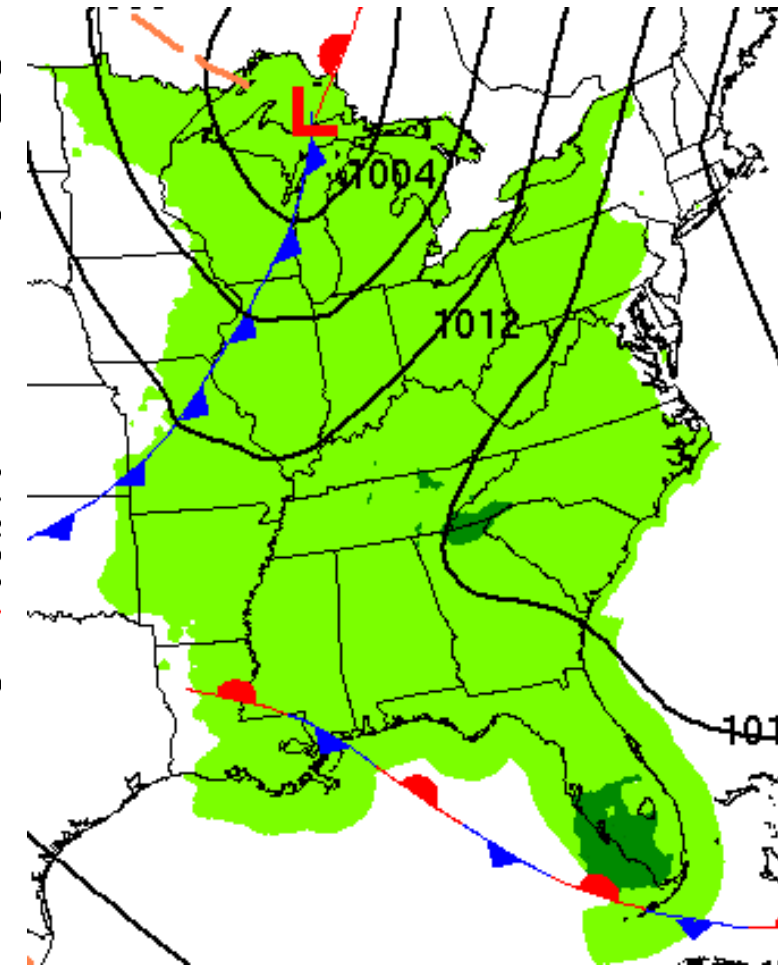
# Looking Ahead This Week...



Tuesday/Wednesday



Thursday/Friday



Early Next Week

Higher Than Normal Rain Chances  
Late Week/Weekend – Stalled Front



# Overall Summary

## **Hurricane Teddy**

- Teddy is currently located about 150 miles southeast of Bermuda, moving north-northeast at 14 mph.
- Maximum sustained winds are near 90 mph (Category 1). However, the storm will grow in size as it makes a post-tropical transitions later this week on approach to Atlantic Canada and continue to produce swells.

## **Tropical Storm Beta**

- Beta is located about 180 miles southeast of Galveston, Texas, moving west-northwest at 3 mph.
- Maximum sustained winds are near 60 mph. Little change in strength is expected before landfall.
- Beta will approach the Texas Gulf Coast on Monday and Tuesday, then turn northeastward near or over Texas and Louisiana during the middle of next week.

## **Wilfred**

- Wilfred dissipated overnight and the National Hurricane Center has issued the last advisory.

## **Ex-Paulette**

- The remnants of former Hurricane Paulette have a 60% (medium) chance of regenerating into a tropical cyclone over the next 48 hours before it moves back over colder waters in the far eastern Atlantic.

## **Cold Front over South Florida**

- An area of showers and thunderstorms located over the Straits of Florida is associated with a cold front.
- This disturbance is forecast to move southward over Cuba during the next couple of days, and then move back northward on Thursday through Saturday.
- Upper-level winds are expected to become marginally conducive for development by Thursday and Friday when the disturbance is forecast to approach the Florida Keys and South Florida. It has a 20% (low) chance of development at that time.





# Florida Outlook

## Florida Outlook:

- **River Flood Warnings** continue for several rivers in the Panhandle. Many have crested and are receding. Parts of the Chipola, Choctawhatchee, and Apalachicola are cresting and will be slow to recede over the rest of the week.
- Light, isolated showers continue in the Panhandle over the next few days with breezy winds and cooler than normal temperatures. Significant rainfall is not expected through Wednesday.
- High rain chances in Southeast Florida/Keys through tonight with a localized flood threat.
- Significant coastal flooding is ongoing today and continuing through Tuesday along the East Coast, including the St. Johns River. **Coastal Flood Warnings** are in effect.
- The combination of strong northerly winds and swells from Hurricane Teddy will create very high surf along the East Coast this week. Beach erosion and dangerous rip currents are expected!
- *The remnants of Tropical Storm Beta are likely to bring increased rain chances to the state later this week, including the Panhandle on Thursday. Rainfall totals are to be determined.*
- *Any development of the low in the Florida Straits will be slow to occur and happen late in the week. Regardless of development, heavy rainfall is possible in South Florida again Thursday and Friday.*

The next briefing packet will be issued mid-day Tuesday. For the latest information on the tropics, please visit the National Hurricane Center website at [www.hurricanes.gov](http://www.hurricanes.gov).



# TROPICAL UPDATE



Created by:

Michael Spagnolo, Deputy State Meteorologist

[Michael.Spagnolo@em.myflorida.com](mailto:Michael.Spagnolo@em.myflorida.com)

State Meteorological Support Unit

Florida Division of Emergency Management

Users wishing to subscribe (approval pending) to this distribution list, register at:

[https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic\\_id=SERT\\_Met\\_Tropics](https://public.govdelivery.com/accounts/FLDEM/subscriber/new?topic_id=SERT_Met_Tropics).

Other reports available for subscription are available at:

<https://public.govdelivery.com/accounts/FLDEM/subscriber/new?preferences=true>